

# Radiology Compliance Branch

## RADIATION PROTECTION SECTION



Division of Health Service Regulation • N.C. Department of Health and Human Services

### THERAPY RADIATION PROTECTION PROGRAM GUIDE

Each registrant shall develop, document, and implement a Radiation Protection Program commensurate with the scope and extent of registered activities to ensure compliance with the provisions of **10A NCAC 15 [.1600]**. In accordance with Rule **[.1603 (c)]**, the registrant shall annually review the radiation protection program content and implementation.

[N.C. Radiation Dictionary](#)

[N.C. Radiation Regulations](#)

### REQUIREMENTS TO INCLUDE IN RADIATION PROTECTION PROGRAM AND SAFETY PROCEDURES

#### Radiation Protection Program: [.1603(a)]

**ALARA** (As Low As Reasonably Achievable) [Radiation Protection Principles](#)

- Describe procedures and engineering controls used, based upon sound radiation principles to achieve occupational doses, and doses to members of the public ALARA. **[.1603(b)]**

#### Personnel

- Describe how individuals are notified if occupational doses exceed 1 mSv (100 mrem) TEDE or 1 mSv (100 mrem) to any individual organ or tissue **[.1004] (effective 1/1/14)**
- State the facility's annual occupational dose limits. **[.1604(a)]** [Dose Limits](#)
- Explain how doses an individual may receive in the current year are reduced by the occupational exposures received while employed by another person. **[.1604(f)]**
- State the dose limits to an Embryo/Fetus. **[.1610] [.1614(1)(c)]**
- Explain the facility's personnel voluntary declared pregnancy policy. **[.1640(f)]** [Pregnancy Policy](#)
- Describe the facility's personnel monitoring exposure policy. **[.1614]**
  - Frequency of exchanging badges
  - Storage of control and personnel badges
  - If personnel monitoring not provided to operators, explain how facility met compliance to regulations.*
- Describe the facility's process to obtain prior occupational dose for new workers. **[.1638(a)(1) & (2)]**
- Explain the facility's retention period for exposure records. *(keep all dosimetry reports)* **[.1640(a)(1) & (g)]**

#### Exceeding Exposure Limits [.1647)] [Dose Limits](#)

- Identify the facility's reporting process for when a dose limit is exceeded? **[.1646] [.1647]**
- Describe how data of the affected person is reported to both the individual and to Radiation Protection. **[.1647(b)(c)(d)(e)] [.0111]**
  - Estimated dose
  - Cause of elevated exposure
  - Corrective Action
  - Name & Date of Birth
  - The last 4 of the Social security number and/or employee identifier



**REVIEW OF RADIATION PROTECTION PROGRAM**

In accordance with Rule .1603 (c), the registrant shall annually review the radiation protection program content and implementation.

**Signature****Date**


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**The N.C. Radiation link** <http://www.ncradiation.net/Xray/reference.htm> has the following information:

<a href="#">Inspection Check List</a>	Information the inspectors ask to see during an inspection
<a href="#">Tips For Answering Violations</a>	How to reply to violations
<a href="#">Reference Guides For Facilities</a>	Information to help the facilities write their own safety program
<a href="#">Plan Reviews &amp; Surveys</a>	Registered service providers that are qualified to provide this service
<a href="#">Registration Requirements</a>	Requirements for new and existing facilities
<a href="#">Steps To Install X-Ray Equipment or Register</a>	Guide for installing equipment
<a href="#">Registration Forms</a>	Form to register a facility/X-ray machines or amend a registration
<a href="#">Registration: Owning or Possessing X-Ray Equipment</a>	Guide for Owning or Possessing X-Ray Equipment in N.C.
<a href="#">Postings</a>	Documents that need to be posted in the facility

**Links of Interest:**

<b>AAPM Reports</b>	<a href="http://www.aapm.org/pubs/reports/">http://www.aapm.org/pubs/reports/</a>
<b>AAPM Medical Physics Practice Guidelines</b>	<a href="http://www.aapm.org/pubs/MPPG/">http://www.aapm.org/pubs/MPPG/</a>
<b>CT Protocols</b>	<a href="http://www.aapm.org/pubs/CTProtocols/">http://www.aapm.org/pubs/CTProtocols/</a>

